US-PAT-NO:

5309228

DOCUMENT-IDENTIFIER: US 5309228 A

TITLE:

Method of extracting feature

image data and method of

extracting person's face data

DATE-ISSUED:

May 3, 1994

US-CL-CURRENT: 358/500, 355/40

APPL-NO: 07/ 886610

DATE FILED: May 21, 1992

<u>.</u>	FOREIGN-APPL-PRIORI	TY-DATA:
COUNTRY	APPL-NO	
APPL-DATE		
JP	3-118746	May 23,
1991		<del>-</del>
JP	3-321596	December
5, 1991		
JP	3-328997	December
12, 1991		
JP	3-328998	December
12, 1991		= 5 5 3 0 2

----- KWIC -----

Brief Summary Text - BSTX (44):

Even if data can be extracted by excluding data for flesh-color portions of ground and trunk of trees or portions similar to flesh color, an image for a

resort or pool includes many regions with the same color as a face in which

much skin is exposed around the face and the regions around the face may be

combined with the face region. Also there are some portraits in which a person

rests his chin. In this case, images with the same color as the face are

combined with the face region. Therefore, to

extract the face region from the

feature of the colors of the color original image, only the face **region cannot** 

## be extracted but combined regions with the same color as the face are

extracted. Thus, it is difficult to automatically
extract the density data
only for the face.

Detailed Description Text - DETX (113):

The similarity between the core picture element and the picture element to

be unified is judged by the number of and hue and saturation values of the

picture elements included in the small mountains (cross sections) of the

two-dimensional histogram corresponding to the core picture elements Z. For

example, the degree of similarity can be judged by the T-value obtained through

the T-test of the expression (17) shown below. The degree of similarity

between the picture element to be unified and the mountain corresponding to the

core picture element increases as the T-value obtained through the T-test

decreases. Therefore, it is preferable to unify picture elements with a

mountain having smaller T-value. It is also possible to obtain the degree of